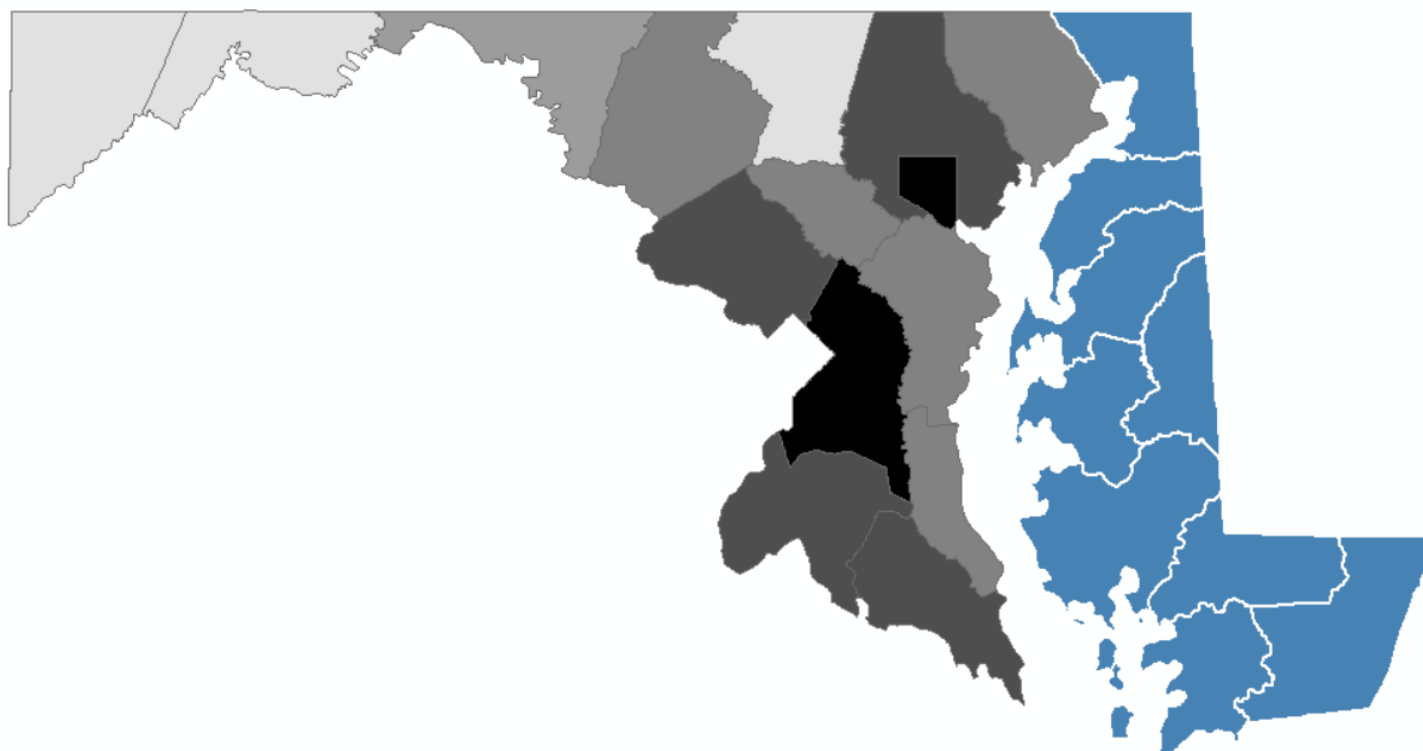


2016



Eastern Region HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
Maryland Department of Health
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted

to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag,

and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

English

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

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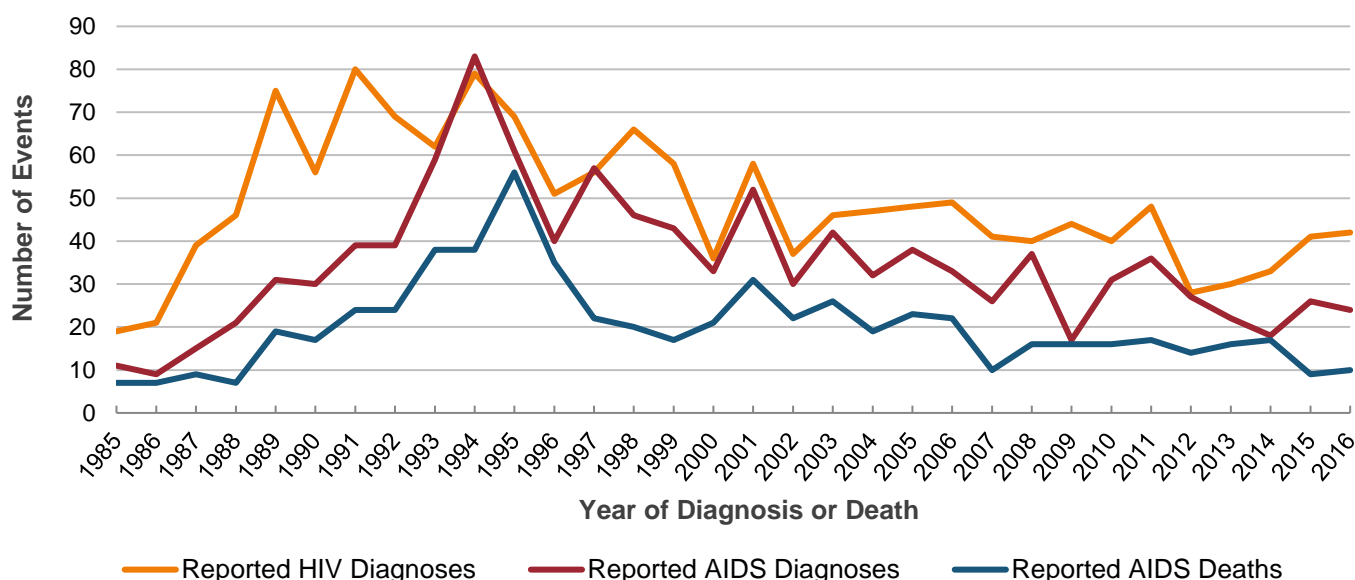
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Section II – Trends 1985-2016

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



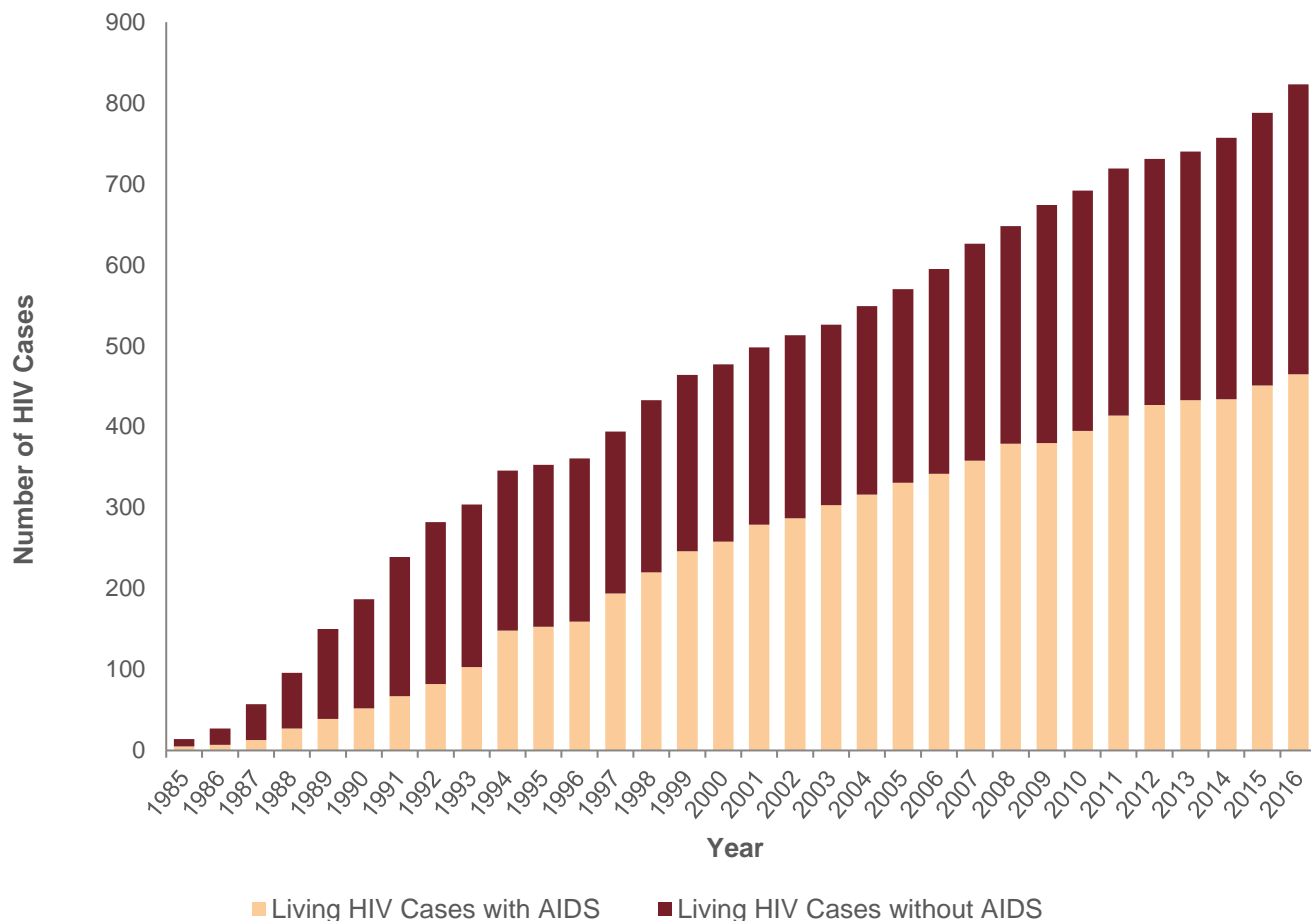
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	8	7	6	2001	58	52	31
1985	19	11	7	2002	37	30	22
1986	21	9	7	2003	46	42	26
1987	39	15	9	2004	47	32	19
1988	46	21	7	2005	48	38	23
1989	75	31	19	2006	49	33	22
1990	56	30	17	2007	41	26	10
1991	80	39	24	2008	40	37	16
1992	69	39	24	2009	44	17	16
1993	62	59	38	2010	40	31	16
1994	79	83	38	2011	48	36	17
1995	69	61	56	2012	28	27	14
1996	51	40	35	2013	30	22	16
1997	56	57	22	2014	33	18	17
1998	66	46	20	2015*	41	26	9
1999	58	43	17	2016*	42	24	10
2000	36	33	21	TOTAL	1,562	1,115	651

*2015-2016 reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017

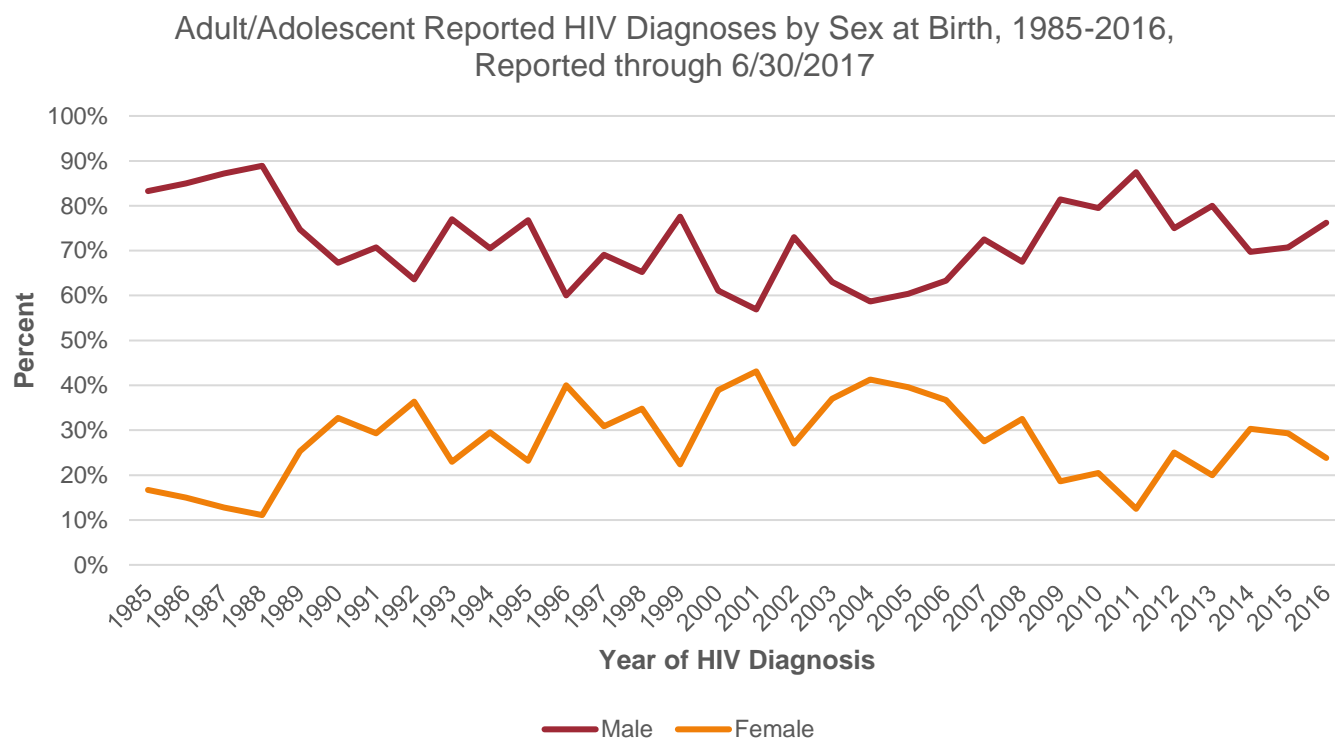
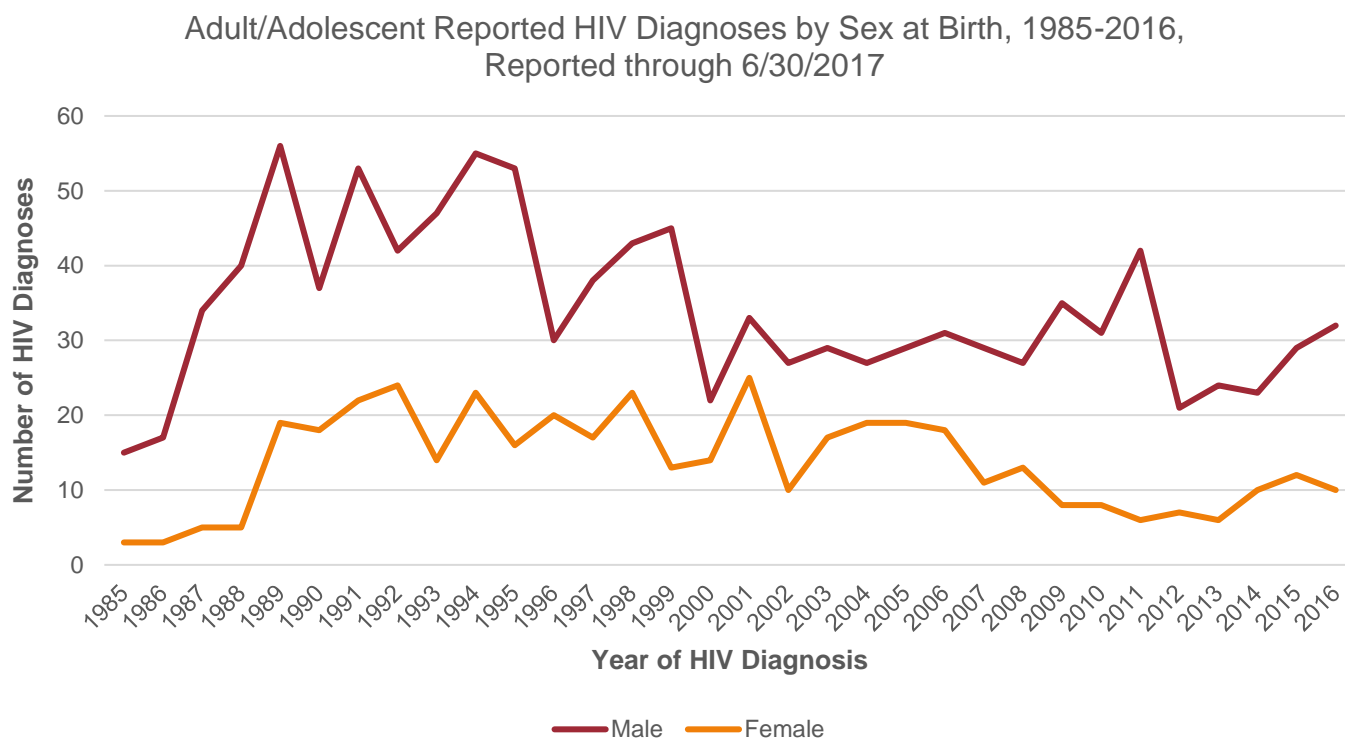
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	9	5	14	2001	219	279	498
1986	20	7	27	2002	226	287	513
1987	44	13	57	2003	223	303	526
1988	69	27	96	2004	233	316	549
1989	111	39	150	2005	239	331	570
1990	135	52	187	2006	253	342	595
1991	172	67	239	2007	268	358	626
1992	200	82	282	2008	269	379	648
1993	201	103	304	2009	294	380	674
1994	198	148	346	2010	297	395	692
1995	200	153	353	2011	305	414	719
1996	202	159	361	2012	304	427	731
1997	200	194	394	2013	307	433	740
1998	213	220	433	2014	323	434	757
1999	218	246	464	2015	337	451	788
2000	219	258	477	2016	358	465	823

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

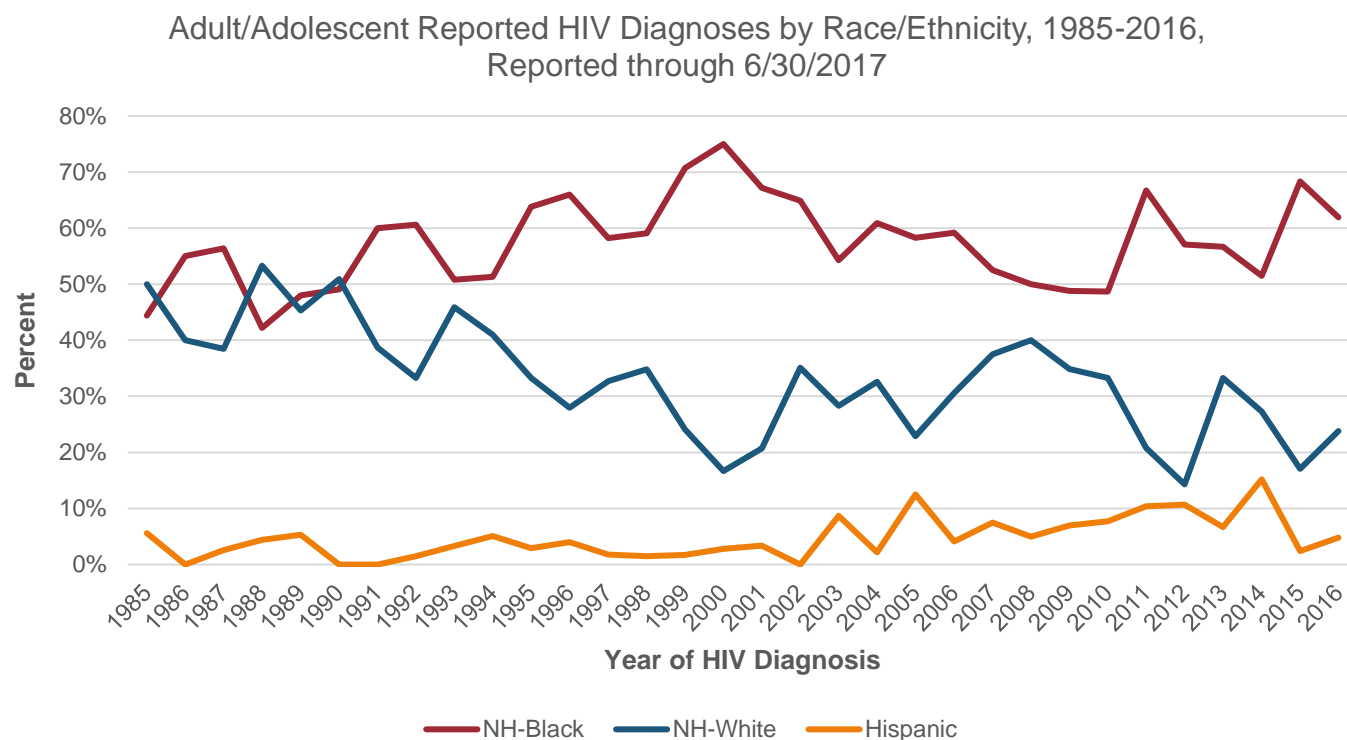
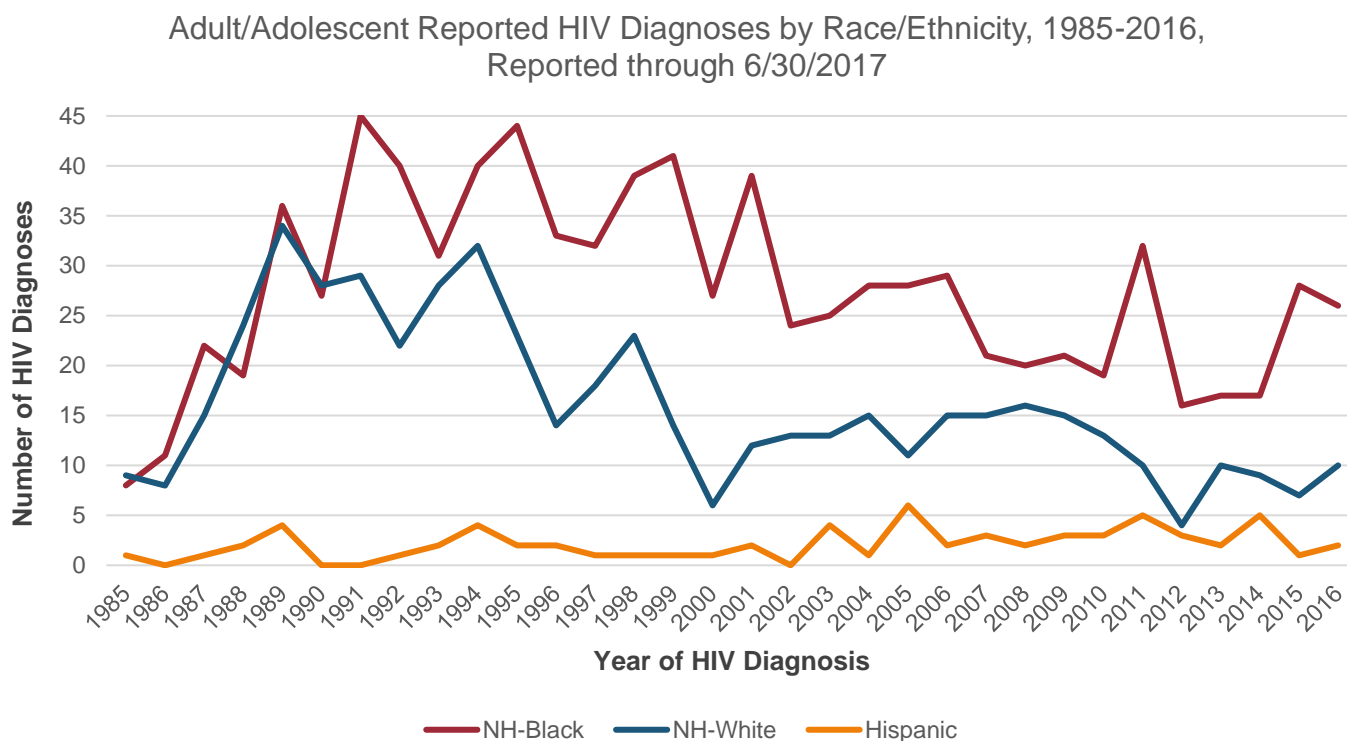
Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



ADULT/ADOLESCENT REPORTED HIV DIAGNOSES					
YEAR OF HIV DIAGNOSIS	No.	SEX AT BIRTH			
		Male		Female	
		No.	%	No.	%
<1985	8	7	87.5%	1	12.5%
1985	18	15	83.3%	3	16.7%
1986	20	17	85.0%	3	15.0%
1987	39	34	87.2%	5	12.8%
1988	45	40	88.9%	5	11.1%
1989	75	56	74.7%	19	25.3%
1990	55	37	67.3%	18	32.7%
1991	75	53	70.7%	22	29.3%
1992	66	42	63.6%	24	36.4%
1993	61	47	77.0%	14	23.0%
1994	78	55	70.5%	23	29.5%
1995	69	53	76.8%	16	23.2%
1996	50	30	60.0%	20	40.0%
1997	55	38	69.1%	17	30.9%
1998	66	43	65.2%	23	34.8%
1999	58	45	77.6%	13	22.4%
2000	36	22	61.1%	14	38.9%
2001	58	33	56.9%	25	43.1%
2002	37	27	73.0%	10	27.0%
2003	46	29	63.0%	17	37.0%
2004	46	27	58.7%	19	41.3%
2005	48	29	60.4%	19	39.6%
2006	49	31	63.3%	18	36.7%
2007	40	29	72.5%	11	27.5%
2008	40	27	67.5%	13	32.5%
2009	43	35	81.4%	8	18.6%
2010	39	31	79.5%	8	20.5%
2011	48	42	87.5%	6	12.5%
2012	28	21	75.0%	7	25.0%
2013	30	24	80.0%	6	20.0%
2014	33	23	69.7%	10	30.3%
2015	41	29	70.7%	12	29.3%
2016	42	32	76.2%	10	23.8%
TOTAL	1,542	1,103	71.5%	439	28.5%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

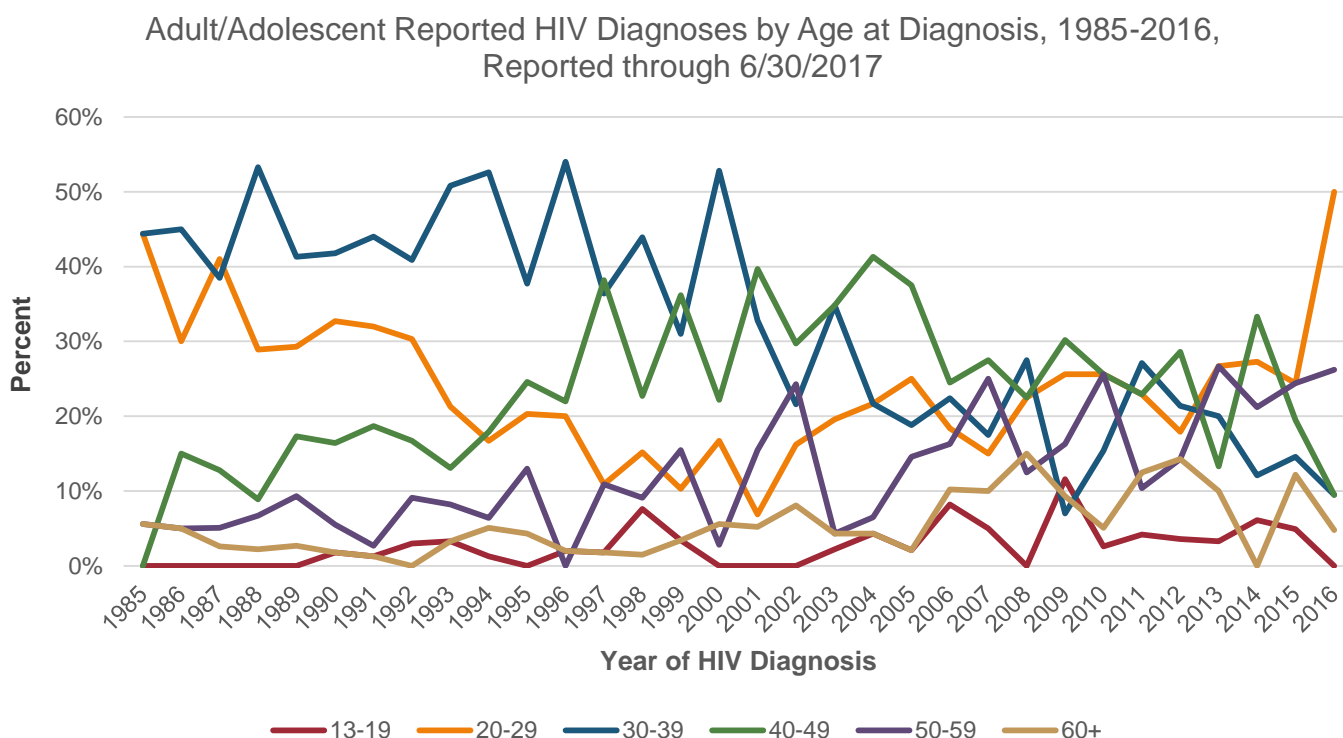
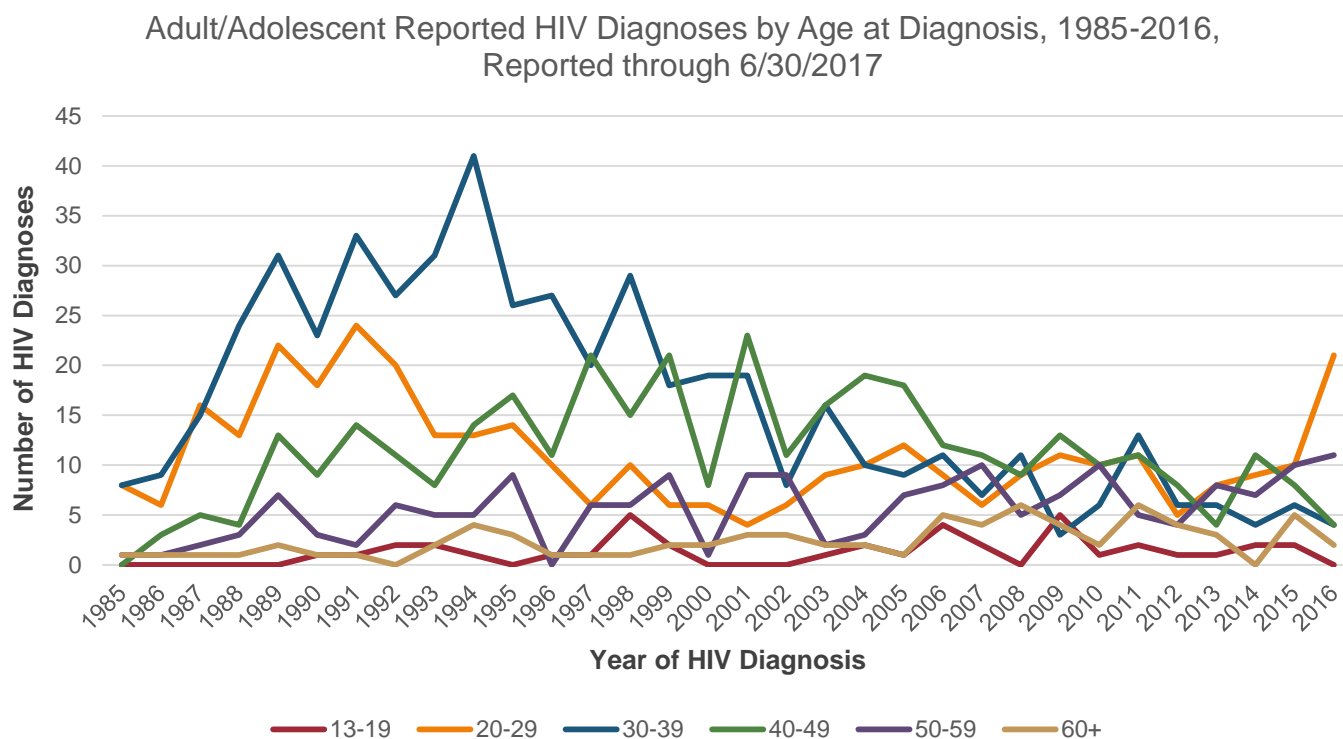


Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	RACE/ETHNICITY							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	8	0	0.0%	5	62.5%	3	37.5%	0	0.0%
1985	18	1	5.6%	8	44.4%	9	50.0%	0	0.0%
1986	20	0	0.0%	11	55.0%	8	40.0%	1	5.0%
1987	39	1	2.6%	22	56.4%	15	38.5%	1	2.6%
1988	45	2	4.4%	19	42.2%	24	53.3%	0	0.0%
1989	75	4	5.3%	36	48.0%	34	45.3%	1	1.3%
1990	55	0	0.0%	27	49.1%	28	50.9%	0	0.0%
1991	75	0	0.0%	45	60.0%	29	38.7%	1	1.3%
1992	66	1	1.5%	40	60.6%	22	33.3%	3	4.5%
1993	61	2	3.3%	31	50.8%	28	45.9%	0	0.0%
1994	78	4	5.1%	40	51.3%	32	41.0%	2	2.6%
1995	69	2	2.9%	44	63.8%	23	33.3%	0	0.0%
1996	50	2	4.0%	33	66.0%	14	28.0%	1	2.0%
1997	55	1	1.8%	32	58.2%	18	32.7%	4	7.3%
1998	66	1	1.5%	39	59.1%	23	34.8%	3	4.5%
1999	58	1	1.7%	41	70.7%	14	24.1%	2	3.4%
2000	36	1	2.8%	27	75.0%	6	16.7%	2	5.6%
2001	58	2	3.4%	39	67.2%	12	20.7%	5	8.6%
2002	37	0	0.0%	24	64.9%	13	35.1%	0	0.0%
2003	46	4	8.7%	25	54.3%	13	28.3%	4	8.7%
2004	46	1	2.2%	28	60.9%	15	32.6%	2	4.3%
2005	48	6	12.5%	28	58.3%	11	22.9%	3	6.3%
2006	49	2	4.1%	29	59.2%	15	30.6%	3	6.1%
2007	40	3	7.5%	21	52.5%	15	37.5%	1	2.5%
2008	40	2	5.0%	20	50.0%	16	40.0%	2	5.0%
2009	43	3	7.0%	21	48.8%	15	34.9%	4	9.3%
2010	39	3	7.7%	19	48.7%	13	33.3%	4	10.3%
2011	48	5	10.4%	32	66.7%	10	20.8%	1	2.1%
2012	28	3	10.7%	16	57.1%	4	14.3%	5	17.9%
2013	30	2	6.7%	17	56.7%	10	33.3%	1	3.3%
2014	33	5	15.2%	17	51.5%	9	27.3%	2	6.1%
2015	41	1	2.4%	28	68.3%	7	17.1%	5	12.2%
2016	42	2	4.8%	26	61.9%	10	23.8%	4	9.5%
TOTAL	1,542	67	4.3%	890	57.7%	518	33.6%	67	4.3%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

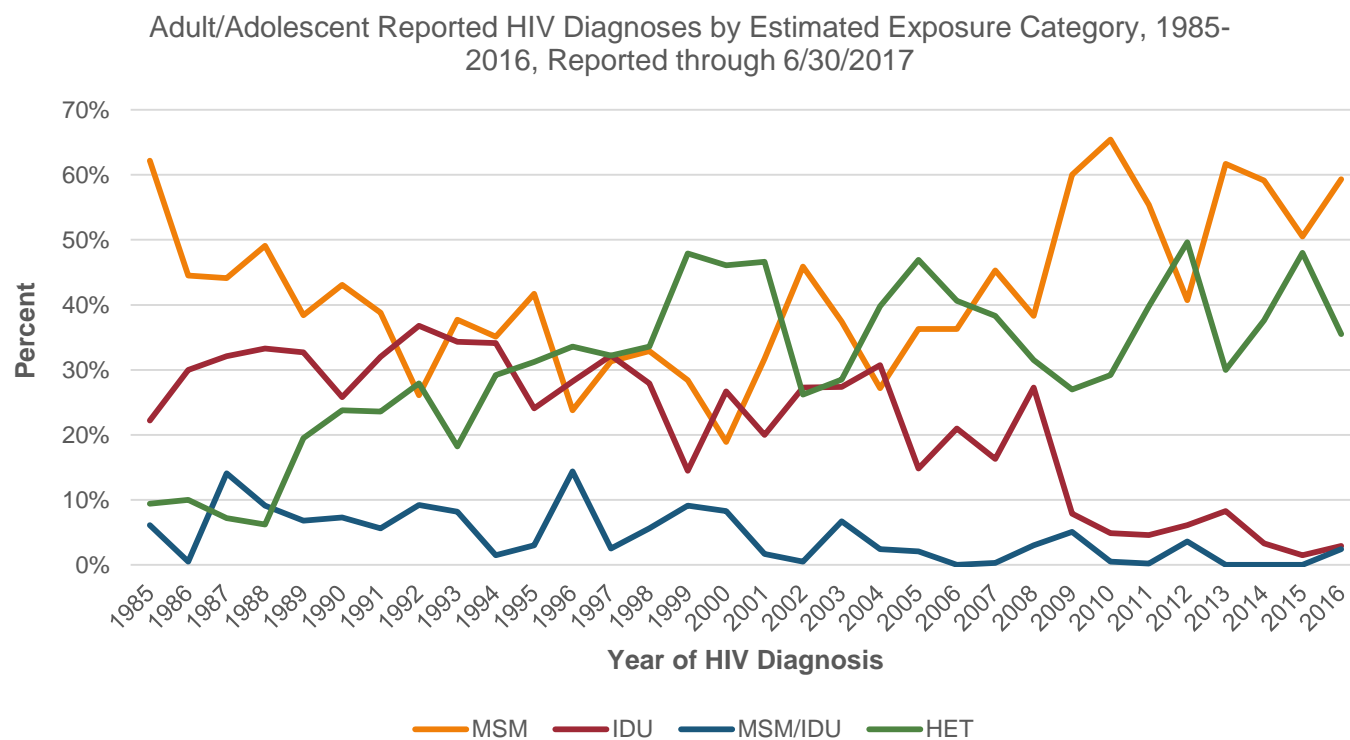
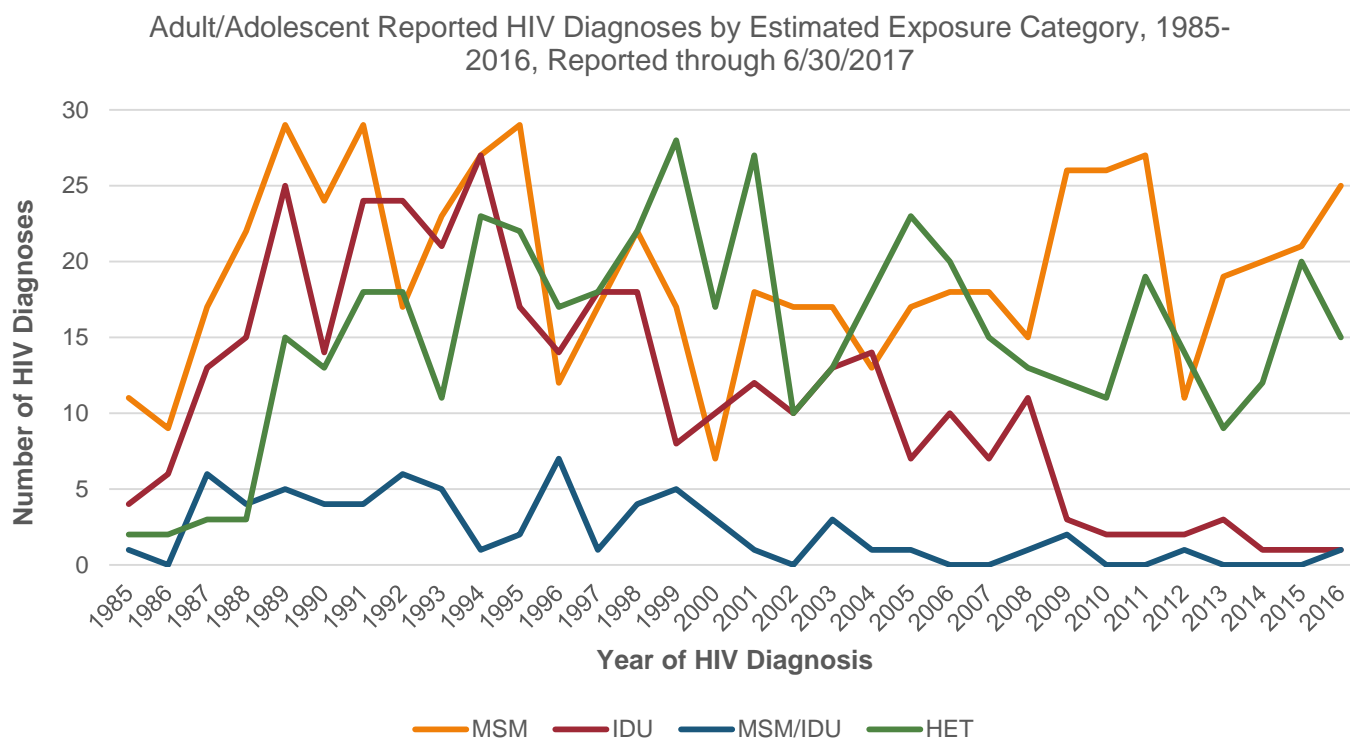


ADULT/ADOLESCENT REPORTED HIV DIAGNOSES

YEAR OF HIV DIAGNOSIS	No.	AGE AT HIV DIAGNOSIS											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	8	1	12.5%	2	25.0%	3	37.5%	1	12.5%	1	12.5%	0	0.0%
1985	18	0	0.0%	8	44.4%	8	44.4%	0	0.0%	1	5.6%	1	5.6%
1986	20	0	0.0%	6	30.0%	9	45.0%	3	15.0%	1	5.0%	1	5.0%
1987	39	0	0.0%	16	41.0%	15	38.5%	5	12.8%	2	5.1%	1	2.6%
1988	45	0	0.0%	13	28.9%	24	53.3%	4	8.9%	3	6.7%	1	2.2%
1989	75	0	0.0%	22	29.3%	31	41.3%	13	17.3%	7	9.3%	2	2.7%
1990	55	1	1.8%	18	32.7%	23	41.8%	9	16.4%	3	5.5%	1	1.8%
1991	75	1	1.3%	24	32.0%	33	44.0%	14	18.7%	2	2.7%	1	1.3%
1992	66	2	3.0%	20	30.3%	27	40.9%	11	16.7%	6	9.1%	0	0.0%
1993	61	2	3.3%	13	21.3%	31	50.8%	8	13.1%	5	8.2%	2	3.3%
1994	78	1	1.3%	13	16.7%	41	52.6%	14	17.9%	5	6.4%	4	5.1%
1995	69	0	0.0%	14	20.3%	26	37.7%	17	24.6%	9	13.0%	3	4.3%
1996	50	1	2.0%	10	20.0%	27	54.0%	11	22.0%	0	0.0%	1	2.0%
1997	55	1	1.8%	6	10.9%	20	36.4%	21	38.2%	6	10.9%	1	1.8%
1998	66	5	7.6%	10	15.2%	29	43.9%	15	22.7%	6	9.1%	1	1.5%
1999	58	2	3.4%	6	10.3%	18	31.0%	21	36.2%	9	15.5%	2	3.4%
2000	36	0	0.0%	6	16.7%	19	52.8%	8	22.2%	1	2.8%	2	5.6%
2001	58	0	0.0%	4	6.9%	19	32.8%	23	39.7%	9	15.5%	3	5.2%
2002	37	0	0.0%	6	16.2%	8	21.6%	11	29.7%	9	24.3%	3	8.1%
2003	46	1	2.2%	9	19.6%	16	34.8%	16	34.8%	2	4.3%	2	4.3%
2004	46	2	4.3%	10	21.7%	10	21.7%	19	41.3%	3	6.5%	2	4.3%
2005	48	1	2.1%	12	25.0%	9	18.8%	18	37.5%	7	14.6%	1	2.1%
2006	49	4	8.2%	9	18.4%	11	22.4%	12	24.5%	8	16.3%	5	10.2%
2007	40	2	5.0%	6	15.0%	7	17.5%	11	27.5%	10	25.0%	4	10.0%
2008	40	0	0.0%	9	22.5%	11	27.5%	9	22.5%	5	12.5%	6	15.0%
2009	43	5	11.6%	11	25.6%	3	7.0%	13	30.2%	7	16.3%	4	9.3%
2010	39	1	2.6%	10	25.6%	6	15.4%	10	25.6%	10	25.6%	2	5.1%
2011	48	2	4.2%	11	22.9%	13	27.1%	11	22.9%	5	10.4%	6	12.5%
2012	28	1	3.6%	5	17.9%	6	21.4%	8	28.6%	4	14.3%	4	14.3%
2013	30	1	3.3%	8	26.7%	6	20.0%	4	13.3%	8	26.7%	3	10.0%
2014	33	2	6.1%	9	27.3%	4	12.1%	11	33.3%	7	21.2%	0	0.0%
2015	41	2	4.9%	10	24.4%	6	14.6%	8	19.5%	10	24.4%	5	12.2%
2016	42	0	0.0%	21	50.0%	4	9.5%	4	9.5%	11	26.2%	2	4.8%
TOTAL	1,542	41	2.7%	357	23.2%	523	33.9%	363	23.5%	182	11.8%	76	4.9%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



Other Exposure Category not shown

[§] Multiple imputation was used to estimate and adjust for missing transmission category.

YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES											
	No.**	% with No Reported Exposure*	ESTIMATED EXPOSURE CATEGORY [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	8	25.0%	5	57.5%	1	15.0%	0	1.3%	1	13.8%	1	12.5%
1985	18	5.6%	11	62.2%	4	22.2%	1	6.1%	2	9.4%	0	0.0%
1986	20	5.0%	9	44.5%	6	30.0%	0	0.5%	2	10.0%	3	15.0%
1987	39	10.3%	17	44.1%	13	32.1%	6	14.1%	3	7.2%	1	2.6%
1988	45	11.1%	22	49.1%	15	33.3%	4	9.1%	3	6.2%	1	2.2%
1989	75	4.0%	29	38.4%	25	32.7%	5	6.8%	15	19.5%	2	2.7%
1990	55	5.5%	24	43.1%	14	25.8%	4	7.3%	13	23.8%	0	0.0%
1991	75	5.3%	29	38.8%	24	32.0%	4	5.6%	18	23.6%	0	0.0%
1992	66	10.6%	17	26.1%	24	36.8%	6	9.2%	18	27.9%	0	0.0%
1993	61	11.5%	23	37.7%	21	34.3%	5	8.2%	11	18.2%	1	1.6%
1994	78	14.1%	27	35.1%	27	34.1%	1	1.5%	23	29.2%	0	0.0%
1995	69	14.5%	29	41.7%	17	24.1%	2	3.0%	22	31.2%	0	0.0%
1996	50	14.0%	12	23.8%	14	28.2%	7	14.4%	17	33.6%	0	0.0%
1997	55	10.9%	17	31.3%	18	32.2%	1	2.5%	18	32.2%	1	1.8%
1998	66	15.2%	22	32.9%	18	27.9%	4	5.6%	22	33.6%	0	0.0%
1999	58	8.6%	17	28.4%	8	14.5%	5	9.1%	28	47.9%	0	0.0%
2000	36	8.3%	7	18.9%	10	26.7%	3	8.3%	17	46.1%	0	0.0%
2001	58	6.9%	18	31.7%	12	20.0%	1	1.7%	27	46.6%	0	0.0%
2002	37	21.6%	17	45.9%	10	27.3%	0	0.5%	10	26.2%	0	0.0%
2003	46	8.7%	17	37.4%	13	27.4%	3	6.7%	13	28.5%	0	0.0%
2004	46	17.4%	13	27.2%	14	30.7%	1	2.4%	18	39.8%	0	0.0%
2005	48	22.9%	17	36.3%	7	14.8%	1	2.1%	23	46.9%	0	0.0%
2006	49	20.4%	18	36.3%	10	21.0%	0	0.0%	20	40.6%	1	2.0%
2007	40	22.5%	18	45.3%	7	16.3%	0	0.3%	15	38.3%	0	0.0%
2008	40	25.0%	15	38.3%	11	27.3%	1	3.0%	13	31.5%	0	0.0%
2009	43	16.3%	26	60.0%	3	7.9%	2	5.1%	12	27.0%	0	0.0%
2010	39	23.1%	26	65.4%	2	4.9%	0	0.5%	11	29.2%	0	0.0%
2011	48	18.8%	27	55.4%	2	4.6%	0	0.2%	19	39.8%	0	0.0%
2012	28	14.3%	11	40.7%	2	6.1%	1	3.6%	14	49.6%	0	0.0%
2013	30	13.3%	19	61.7%	3	8.3%	0	0.0%	9	30.0%	0	0.0%
2014	33	18.2%	20	59.1%	1	3.3%	0	0.0%	12	37.6%	0	0.0%
2015	41	12.2%	21	50.5%	1	1.5%	0	0.0%	20	48.0%	0	0.0%
2016*	42	26.2%	25	59.3%	1	2.9%	1	2.4%	15	35.5%	0	0.0%
TOTAL	1,542	13.5%	623	40.4%	356	23.1%	71	4.6%	481	31.2%	11	0.7%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

*Percent with no reported exposure prior to multiple imputation adjustment.

** Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Caroline	27,333	2	4.8%	7.3	***	***	***	***	***
Cecil	86,182	3	7.1%	3.5	***	***	***	***	***
Dorchester	27,280	10	23.8%	36.7	90.0%	100.0%	50.0%	70.0%	169
Kent	17,439	1	2.4%	5.7	***	***	***	***	***
Queen Anne's	41,644	2	4.8%	4.8	***	***	***	***	***
Somerset	22,676	6	14.3%	26.5	83.3%	83.3%	***	100.0%	502
Talbot	32,436	1	2.4%	3.1	***	***	***	***	***
Wicomico	86,374	14	33.3%	16.2	78.6%	92.9%	***	92.9%	419
Worcester	45,116	3	7.1%	6.6	***	***	***	***	***
TOTAL	386,481	42	100.0%	10.9	85.7%	95.2%	28.6%	90.5%	413

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Caroline	27,333	0	0.0%	0.0	--	--
Cecil	86,182	5	21.7%	5.8	6.0	40.0%
Dorchester	27,280	6	26.1%	22.0	2.2	83.3%
Kent	17,439	0	0.0%	0.0	--	--
Queen Anne's	41,644	4	17.4%	9.6	***	***
Somerset	22,676	2	8.7%	8.8	***	***
Talbot	32,436	1	4.3%	3.1	***	***
Wicomico	86,374	5	21.7%	5.8	2.2	60.0%
Worcester	45,116	0	0.0%	0.0	--	--
TOTAL	386,481	23	100.0%	6.0	4.1	65.2%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Caroline	27,333	31	8.9%	113.4	34	7.4%	124.4	65	8.0%	237.8	420
Cecil	86,182	49	14.0%	56.9	63	13.7%	73.1	112	13.8%	130.0	769
Dorchester	27,280	44	12.6%	161.3	86	18.7%	315.2	130	16.1%	476.5	209
Kent	17,439	14	4.0%	80.3	20	4.3%	114.7	34	4.2%	195.0	512
Queen Anne's	41,644	16	4.6%	38.4	37	8.0%	88.8	53	6.6%	127.3	785
Somerset	22,676	25	7.2%	110.3	31	6.7%	136.7	56	6.9%	247.0	404
Talbot	32,436	26	7.4%	80.2	32	7.0%	98.7	58	7.2%	178.8	559
Wicomico	86,374	110	31.5%	127.4	113	24.6%	130.8	223	27.6%	258.2	387
Worcester	45,116	34	9.7%	75.4	44	9.6%	97.5	78	9.6%	172.9	578
TOTAL	386,481	349	100.0%	90.3	460	100.0%	119.0	809	100.0%	209.3	477

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction and Current Residence, Reported through 6/30/2017

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Caroline	27,333	65	8.0%	237.8	420	56	6.5%	204.9	488	-13.8%
Cecil	86,182	112	13.8%	130.0	769	135	15.7%	156.6	638	20.5%
Dorchester	27,280	130	16.1%	476.5	209	136	15.8%	498.5	200	4.6%
Kent	17,439	34	4.2%	195.0	512	33	3.8%	189.2	528	-2.9%
Queen Anne's	41,644	53	6.6%	127.3	785	54	6.3%	129.7	771	1.9%
Somerset	22,676	56	6.9%	247.0	404	58	6.7%	255.8	390	3.6%
Talbot	32,436	58	7.2%	178.8	559	69	8.0%	212.7	470	19.0%
Wicomico	86,374	223	27.6%	258.2	387	233	27.0%	269.8	370	4.5%
Worcester	45,116	78	9.6%	172.9	578	88	10.2%	195.1	512	12.8%
TOTAL	386,481	809	100.0%	209.3	477	862	100.0%	223.0	448	6.6%

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Caroline	56	34	60.7%	650	5.9%	11.8%	8.8%	73.5%
Cecil	135	85	63.0%	576	5.9%	12.9%	21.2%	60.0%
Dorchester	136	101	74.3%	541	12.9%	17.8%	15.8%	53.5%
Kent	33	25	75.8%	571	4.0%	20.0%	20.0%	56.0%
Queen Anne's	54	42	77.8%	615	7.1%	14.3%	16.7%	61.9%
Somerset	58	40	69.0%	597	10.0%	12.5%	5.0%	72.5%
Talbot	69	51	73.9%	479	15.7%	17.6%	23.5%	43.1%
Wicomico	233	174	74.7%	501	15.5%	13.2%	21.3%	50.0%
Worcester	88	73	83.0%	619	8.2%	12.3%	12.3%	67.1%
TOTAL	862	625	72.5%	558	11.0%	14.4%	17.4%	57.1%

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Caroline	56	36	64.3%	77.8%	2,288
Cecil	135	83	61.5%	83.1%	12,078
Dorchester	136	107	78.7%	84.1%	14,889
Kent	33	26	78.8%	100.0%	--
Queen Anne's	54	42	77.8%	85.7%	14,549
Somerset	58	40	69.0%	82.5%	4,500
Talbot	69	49	71.0%	87.8%	8,301
Wicomico	233	169	72.5%	75.1%	22,513
Worcester	88	73	83.0%	90.4%	28,820
TOTAL	862	625	72.5%	82.9%	13,803

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

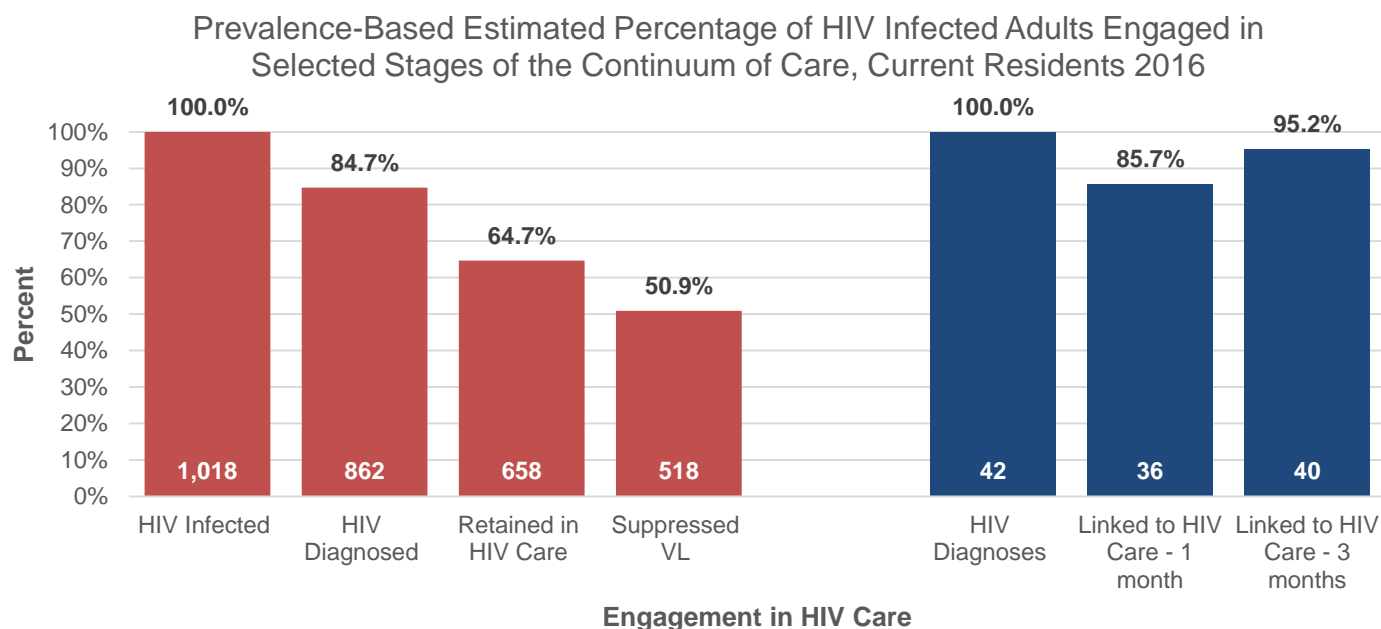
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IV – Continuum of Care Cascades

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Eastern Region Residents, Reported through 6/30/2017

The prevalence-based Eastern Region Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in the Eastern Region. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in the region on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	1,018	100.0%	New HIV Diagnoses	42	100.0%
HIV Diagnosed	862	84.7%	Linked to HIV Care – 1 Month	36	85.7%
Retained in HIV Care	658	64.7%	Linked to HIV Care – 3 Months	40	95.2%
Suppressed VL	518	50.9%			

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

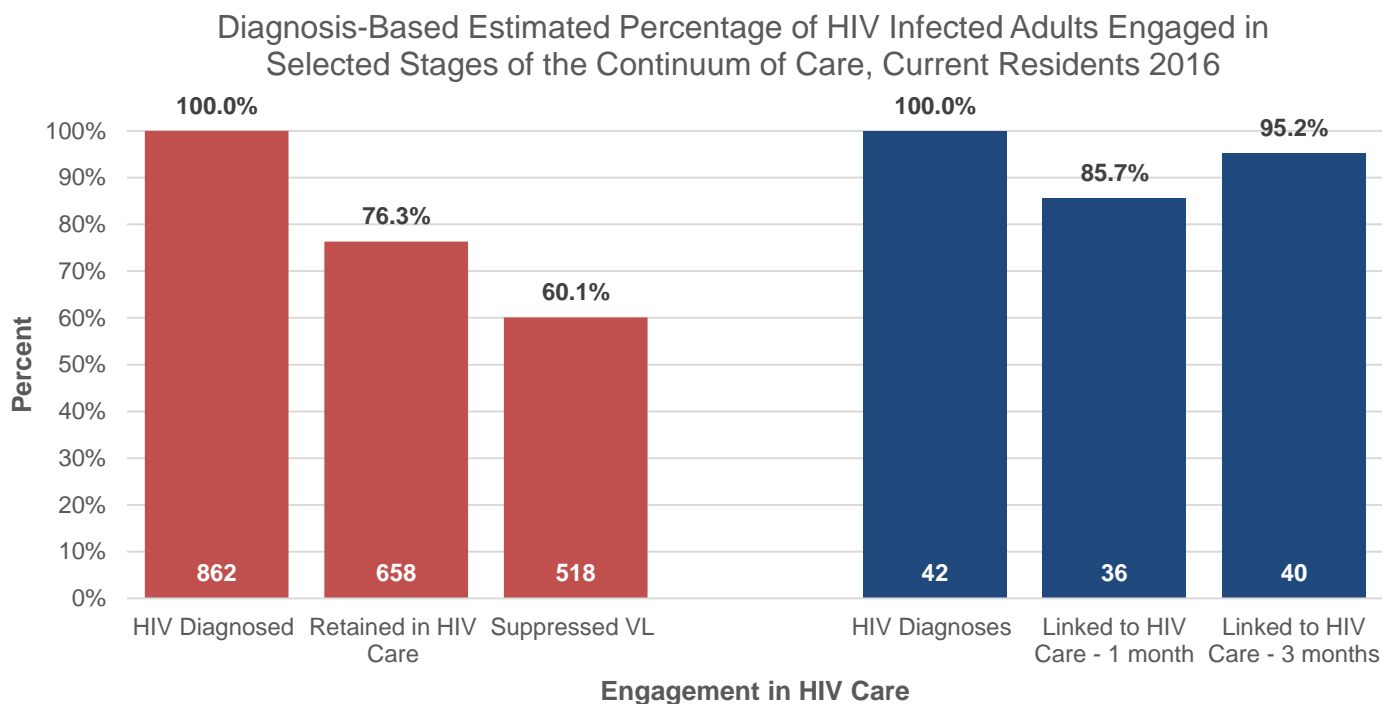
Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis.* 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. *HIV Surveillance Supplemental Report* 2017;22(No. 2). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published July 2017.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Eastern Region Residents, Reported through 6/30/2017

The diagnosis-based Eastern Region Engagement in HIV Care Cascade (below) uses regional surveillance data for current Eastern Region residents to describe the number and percentage of persons living with HIV in the region on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	862	100.0%	New HIV Diagnoses	42	100.0%
Retained in HIV Care	658	76.3%	Linked to HIV Care – 1 Month	36	85.7%
Suppressed VL	518	60.1%	Linked to HIV Care – 3 Months	40	95.2%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES						
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
					% 1 mo.	% 3 mo.	%	% Median Count
<5 (Pediatric)	24,284	0	0.0%	0.0	--	--	--	--
5-12 (Pediatric)	42,832	0	0.0%	0.0	--	--	--	--
13-19	41,537	0	0.0%	0.0	--	--	--	--
20-29	59,329	21	50.0%	35.4	81.0%	95.2%	***	90.5% 479
30-39	49,461	4	9.5%	8.1	***	***	***	***
40-49	53,154	4	9.5%	7.5	***	***	***	***
50-59	67,623	11	26.2%	16.3	90.9%	90.9%	63.6%	100.0% 143
60+	115,377	2	4.8%	1.7	***	***	***	***
TOTAL	453,597	42	100.0%	9.3	85.7%	95.2%	28.6%	90.5% 413

*** Data withheld due to low population counts and/or case counts

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2016.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Rate: Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	POPULATION	TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	24,284	1	0.1%	100.0%	4.1	24,284
5-12	42,832	3	0.3%	0.0%	7.0	14,277
13-19	41,537	6	0.7%	16.7%	14.4	6,922
20-29	59,329	71	8.1%	29.6%	119.7	835
30-39	49,461	129	14.7%	46.5%	260.8	383
40-49	53,154	189	21.5%	63.0%	355.6	281
50-59	67,623	317	36.1%	70.7%	468.8	213
60+	115,377	162	18.5%	68.5%	140.4	712
TOTAL	453,597	878	100.0%	61.2%	193.6	516

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	2	***	***	***	***	***	***	***
20-29	65	***	***	***	***	***	***	***
30-39	128	85	66.4%	576	16.5%	9.4%	16.5%	57.6%
40-49	188	134	71.3%	568	12.7%	21.6%	9.7%	56.0%
50-59	317	240	75.7%	555	10.8%	12.9%	19.2%	57.1%
60+	162	117	72.2%	532	4.3%	17.1%	22.2%	56.4%
TOTAL	862	625	72.5%	558	11.0%	14.4%	17.4%	57.1%

*** Data withheld due to low population counts and/or case counts

Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
13-19	2	***	***	***		***
20-29	65	***	***	***		***
30-39	128	86	67.2%	69.8%		38,790
40-49	188	136	72.3%	80.1%		4,620
50-59	317	235	74.1%	89.8%		5,390
60+	162	113	69.8%	92.0%		8,696
TOTAL	862	625	72.5%	82.9%		13,803

*** Data withheld due to low population counts and/or case counts

Age on [date]: Age group of living cases on the specified date.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2016, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Male	187,270	32	76.2%	17.1	87.5%	93.8%	31.3%	87.5%	405
Female	199,211	10	23.8%	5.0	80.0%	100.0%	20.0%	100.0%	442
TOTAL	386,481	42	100.0%	10.9	85.7%	95.2%	28.6%	90.5%	413

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Hispanic	15,184	2	4.8%	13.2	***	***	***	***	***
Non-Hispanic	371,297	40	95.2%	10.8	***	***	***	***	***
American Indian/Alaska Native, only	1,037	0	0.0%	0.0	--	--	--	--	--
Asian, only	6,206	2	4.8%	32.2	***	***	***	***	***
Black, only	61,924	26	61.9%	42.0	84.6%	92.3%	26.9%	84.6%	405
Native Hawaiian/ Other Pacific Islander, only	144	0	0.0%	0.0	--	--	--	--	--
White, only	296,495	10	23.8%	3.4	90.0%	100.0%	40.0%	100.0%	380
Multiracial/ Other	5,491	2	4.8%	36.4	***	***	***	***	***
TOTAL	386,481	42	100.0%	10.9	85.7%	95.2%	28.6%	90.5%	413

COUNTRY OF BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
United States	362,140	36	85.7%	9.9	83.3%	94.4%	***	88.9%	425
Foreign-born	21,150	6	14.3%	28.4	100.0%	100.0%	***	100.0%	371
Africa	--	0	0.0%	--	--	--	--	--	--
Asia	--	1	2.4%	--	***	***	***	***	***
Caribbean	--	5	11.9%	--	***	***	***	***	***
Central America	--	0	0.0%	--	--	--	--	--	--
Other	--	0	0.0%	--	--	--	--	--	--
Unknown	--	0	0.0%	--	--	--	--	--	--
TOTAL	383,290	42	100.0%	11.0	85.7%	95.2%	28.6%	90.5%	413

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

*** Data withheld due to low population and/or case counts

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Male	187,270	594	68.9%	61.8%	317.2	315
Female	199,211	268	31.1%	60.8%	134.5	743
TOTAL	386,481	862	100.0%	61.5%	223.0	448

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Hispanic	15,184	52	6.0%	59.6%	342.5	291
Non-Hispanic	371,297	810	94.0%	61.6%	218.2	458
American Indian/Alaska Native, only	1,037	0	--	--	--	--
Asian, only	6,206	***	***	***	***	***
Black, only	61,924	477	55.3%	62.1%	770.3	129
Native Hawaiian/ Other Pacific Islander, only	144	***	***	***	***	***
White, only	296,495	271	31.4%	62.4%	91.4	1094
Multiracial/ Other	5,491	58	6.7%	55.2%	1,056.3	94
TOTAL	386,481	862	100.0%	61.5%	223.0	448

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
United States	362,140	800	92.8%	61.9%	220.9	452
Foreign-born	21,150	55	6.4%	58.2%	260.0	384
Africa	--	9	1.0%	55.6%	--	--
Asia	--	1	0.1%	100.0%	--	--
Caribbean	--	27	3.1%	44.4%	--	--
Central America	--	12	1.4%	83.3%	--	--
Other	--	6	0.7%	66.7%	--	--
Unknown	--	7	0.8%	42.9%	--	--
TOTAL	383,290	862	100.0%	61.5%	224.9	444

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

*** Data withheld due to low population and/or case counts

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	594	422	71.0%	532	12.8%	14.5%	19.0%	53.8%
Female	268	203	75.7%	607	7.4%	14.3%	14.3%	64.0%
TOTAL	862	625	72.5%	558	11.0%	14.4%	17.4%	57.1%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	52	35	67.3%	571	17.1%	8.6%	20.0%	54.3%
Non-Hispanic	810	590	72.8%	558	10.7%	14.7%	17.3%	57.3%
American Indian/Alaska Native, only	0	--	--	--	--	--	--	--
Asian, only	***	***	***	***	***	***	***	***
Black, only	477	343	71.9%	530	12.2%	15.2%	19.8%	52.8%
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***	***	***	***
White, only	271	198	73.1%	618	8.1%	15.2%	14.6%	62.1%
Multiracial/Other	58	46	79.3%	586	10.9%	8.7%	10.9%	69.6%
TOTAL	862	625	72.5%	558	11.0%	14.4%	17.4%	57.1%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	800	575	71.9%	560	10.6%	14.3%	17.0%	58.1%
Foreign-born	55	43	78.2%	434	18.6%	18.6%	16.3%	46.5%
Africa	9	7	77.8%	595	0.0%	14.3%	0.0%	85.7%
Asia	1	***	***	***	***	***	***	***
Caribbean	27	20	74.1%	375	25.0%	20.0%	30.0%	25.0%
Central America	12	9	75.0%	571	22.2%	11.1%	11.1%	55.6%
Other	6	***	***	***	***	***	***	***
Unknown	7	7	100.0%	489	0.0%	0.0%	57.1%	42.9%
TOTAL	862	625	72.5%	558	11.0%	14.4%	17.4%	57.1%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	594	430	72.4%	83.7%	10,173
Female	268	195	72.8%	81.0%	15,130
TOTAL	862	625	72.5%	82.9%	13,803

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	52	33	63.5%	81.8%	84,435
Non-Hispanic	810	592	73.1%	82.9%	11,650
American Indian/Alaska Native, only	0	--	--	--	--
Asian, only	***	***	***	***	***
Black, only	477	347	72.7%	80.4%	18,075
Native Hawaiian/Other Pacific Islander, only	***	***	***	***	***
White, only	271	197	72.7%	89.8%	1,155
Multiracial/Other	58	45	77.6%	75.6%	22,280
TOTAL	862	625	72.5%	82.9%	13,803

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	800	575	71.9%	84.2%	12,882
Foreign-born	55	43	78.2%	65.1%	15,130
Africa	9	7	77.8%	100.0%	--
Asia	1	***	***	***	***
Caribbean	27	21	77.8%	42.9%	14,467
Central America	12	8	66.7%	87.5%	123,162
Other	6	***	***	***	***
Unknown	7	7	100.0%	85.7%	257
TOTAL	862	625	72.5%	82.9%	13,803

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

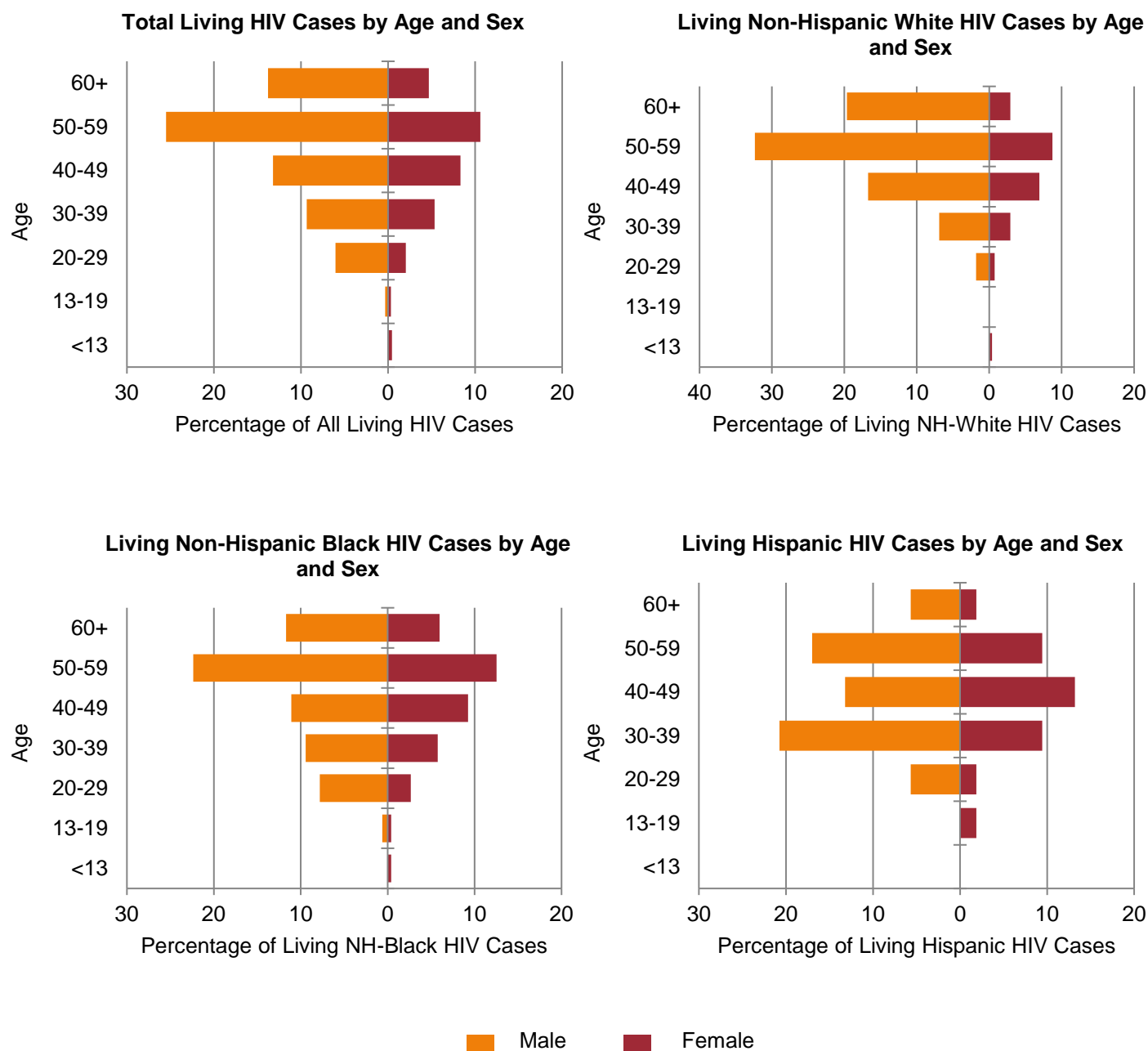
With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING MALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	3,168	6,476	22,008	2,537	34,189
	Cases	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)	--	--	--	--	--
13-19	Population	1,365	4,095	14,277	1,144	20,881
	Cases	0	3	0	0	3
	Rate	0.0	73.3	0.0	0.0	14.4
	Ratio (1 in X)	--	1,365	--	--	6,960
20-29	Population	1,812	6,468	20,211	1,173	29,664
	Cases	3	38	5	7	53
	Rate	165.6	587.5	24.7	596.8	178.7
	Ratio (1 in X)	604	170	4,042	167	559
30-39	Population	2,018	4,423	17,401	847	24,689
	Cases	***	46	19	***	82
	Rate	***	1,040.0	109.2	***	332.1
	Ratio (1 in X)	***	96	915	***	301
40-49	Population	1,344	4,124	19,679	834	25,981
	Cases	***	54	46	***	116
	Rate	***	1,309.4	233.8	***	446.5
	Ratio (1 in X)	***	76	427	***	223
50-59	Population	900	4,868	26,348	830	32,946
	Cases	***	109	89	***	224
	Rate	***	2,239.1	337.8	***	679.9
	Ratio (1 in X)	***	44	296	***	147
60+	Population	686	6,048	45,319	1,056	53,109
	Cases	***	57	54	***	121
	Rate	***	942.5	119.2	***	227.8
	Ratio (1 in X)	***	106	839	***	438
TOTAL MALES BY RACE/ETHNICITY	Population	11,293	36,502	165,243	8,421	221,459
	Cases	33	307	213	46	599
	Rate	292.2	841.0	128.9	546.3	270.5
	Ratio (1 in X)	342	118	775	183	369

*** Data withheld due to low population and/or case counts

Age on [date]: Age group of living cases on the specified date.

Total Living Male HIV Cases: Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING FEMALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	3,196	6,404	20,988	2,339	32,927
	Cases	0	2	1	1	4
	Rate	0.0	31.2	4.8	42.8	12.1
	Ratio (1 in X)	--	3,201	20,988	2,339	8,231
13-19	Population	1,263	3,967	14,118	1,308	20,656
	Cases	1	2	0	0	3
	Rate	79.2	50.4	0.0	0.0	14.5
	Ratio (1 in X)	1,263	1,983	--	--	6,885
20-29	Population	1,532	6,080	20,492	1,561	29,665
	Cases	1	13	2	2	18
	Rate	65.3	213.8	9.8	128.1	60.7
	Ratio (1 in X)	1,532	467	10,246	780	1,648
30-39	Population	1,598	4,461	17,712	1,001	24,772
	Cases	5	28	8	6	47
	Rate	312.9	627.7	45.2	599.4	189.7
	Ratio (1 in X)	319	159	2,214	166	527
40-49	Population	1,183	4,242	20,811	937	27,173
	Cases	***	45	19	***	73
	Rate	***	1,060.8	91.3	***	268.6
	Ratio (1 in X)	***	94	1,095	***	372
50-59	Population	755	5,242	27,750	930	34,677
	Cases	***	61	24	***	93
	Rate	***	1,163.7	86.5	***	268.2
	Ratio (1 in X)	***	85	1,156	***	372
60+	Population	728	7,905	52,377	1,258	62,268
	Cases	***	29	8	***	41
	Rate	***	366.9	15.3	***	65.8
	Ratio (1 in X)	***	272	6,547	***	1,518
TOTAL FEMALES BY RACE/ETHNICITY	Population	10,255	38,301	174,248	9,334	232,138
	Cases	20	180	62	17	279
	Rate	195.0	470.0	35.6	182.1	120.2
	Ratio (1 in X)	512	212	2,810	549	832

*** Data withheld due to low population and/or case counts

Age on [date]: Age group of living cases on the specified date.

Total Living Female HIV Cases: Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

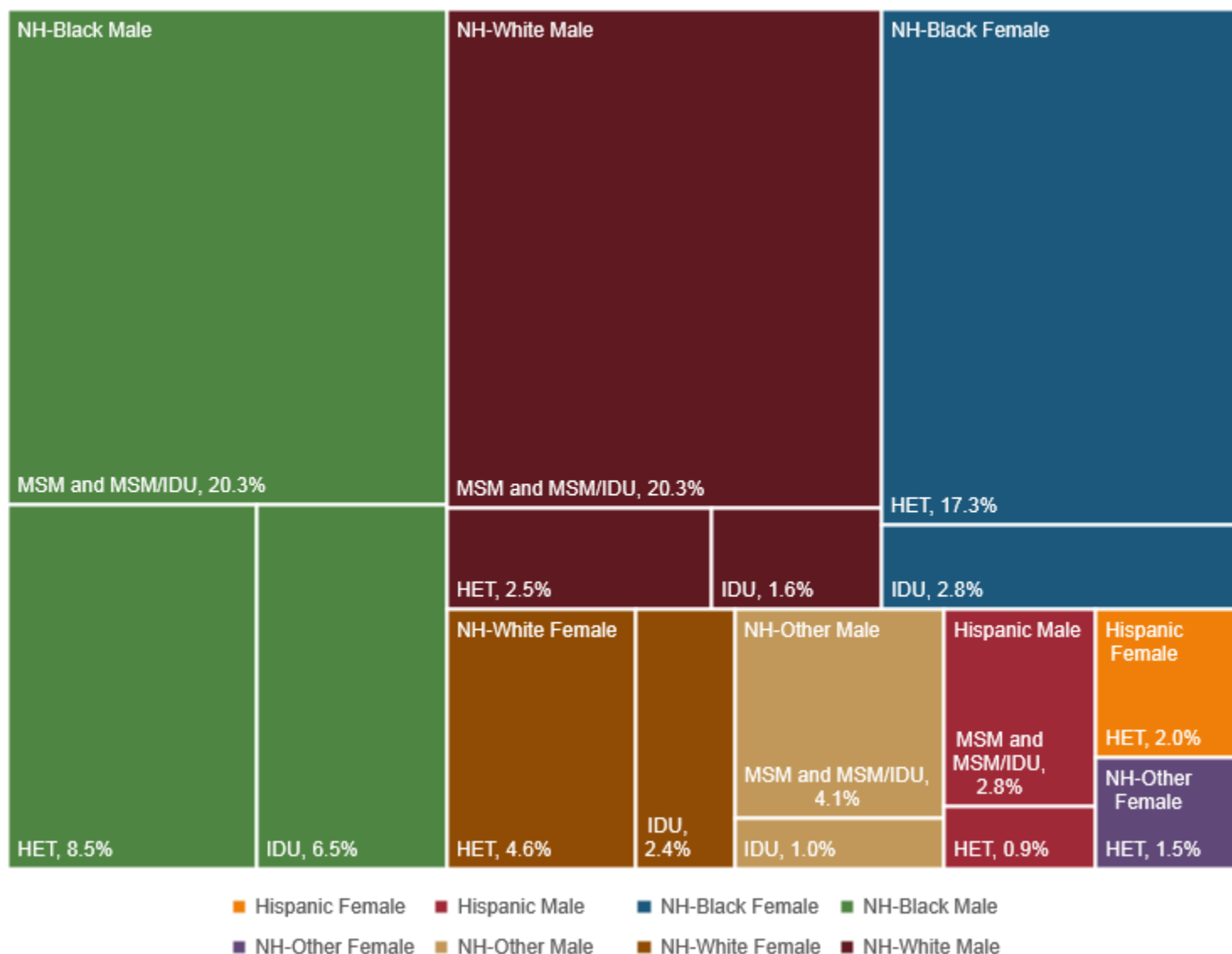
Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017



Other exposure categories not shown (<1%)

Multiple imputation was used to estimate and adjust for missing transmission category

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES					
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
			% 1 mo.	% 3 mo.	%	% Median Count
With Exposure	31	100.0%	87.1%	93.5%	25.8%	87.1% 460
Men who have Sex with Men (MSM)	23	74.2%	87.0%	95.7%	30.4%	91.3% 444
Injection Drug Users (IDU)	0	0.0%	--	--	--	-- --
Men who have Sex with Men and Inject Drugs (MSM/IDU)	1	3.2%	***	***	***	*** ***
Heterosexual Exposure (HET)	7	22.6%	***	***	***	*** ***
Other Exposure	0	0.0%	--	--	--	-- --
No Reported Exposure*	11		81.8%	100.0%	36.4%	100.0% 323
TOTAL	42		85.7%	95.2%	28.6%	90.5% 413

MALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES					
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
			% 1 mo.	% 3 mo.	%	% Median Count
With Exposure	28	100.0%	85.7%	92.9%	28.6%	85.7% 452
Men who have Sex with Men (MSM)	23	82.1%	87.0%	95.7%	30.4%	91.3% 444
Injection Drug Users (IDU)	0	0.0%	--	--	--	-- --
Men who have Sex with Men and Inject Drugs (MSM/IDU)	1	3.6%	***	***	***	*** ***
Heterosexual Exposure (HET)	4	14.3%	***	***	***	*** ***
Other Exposure	0	0.0%	--	--	--	-- --
No Reported Exposure	4		100.0%	100.0%	50.0%	100.0% 195
TOTAL	32		87.5%	93.8%	31.3%	87.5% 405

FEMALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES					
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
			% 1 mo.	% 3 mo.	%	% Median Count
With Exposure	3	100.0%	***	***	***	*** ***
Injection Drug Users (IDU)	0	0.0%	--	--	--	-- --
Heterosexual Exposure (HET)	3	30.0%	***	***	***	*** ***
Other Exposure	0	0.0%	--	--	--	-- --
No Reported Exposure*	7		***	***	***	*** ***
TOTAL	10		80.0%	100.0%	20.0%	100.0% 442

* Includes 2 new HIV diagnoses with Presumed Female Heterosexual exposure

** 2016 reported HIV exposure data are preliminary.

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	772	100.0%	62.7%
Men who have Sex with Men (MSM)	343	44.4%	56.9%
Injection Drug Users (IDU)	112	14.5%	75.9%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	33	4.3%	69.7%
Heterosexual Exposure (HET)	283	36.7%	63.6%
Other Exposures	1	0.1%	100.0%
No Reported Exposure*	90		51.1%
TOTAL	862		61.5%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	540	100.0%	62.6%
Men who have Sex with Men (MSM)	343	63.5%	56.9%
Injection Drug Users (IDU)	68	12.6%	82.4%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	33	6.1%	69.7%
Heterosexual Exposure (HET)	95	17.6%	66.3%
Other Exposures	1	0.2%	100.0%
No Reported Exposure	54		53.7%
TOTAL	594		61.8%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	232	100.0%	62.9%
Injection Drug Users (IDU)	44	19.0%	65.9%
Heterosexual Exposure (HET)	188	81.0%	62.2%
Other Exposures	0	0.0%	0.0%
No Reported Exposure*	36		47.2%
TOTAL	268		60.8%

* Includes 12 living HIV cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	47	100.0%	420	100.0%	245	100.0%
Men who have Sex with Men (MSM)	20	42.6%	143	34.0%	152	62.0%
Injection Drug Users (IDU)	***	***	66	15.7%	32	13.1%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	17	4.0%	7	2.9%
Heterosexual Exposure (HET)	22	46.8%	194	46.2%	53	21.6%
Other Exposures	0	0.0%	0	0.0%	1	0.4%
No Reported Exposure*	5		57		26	
TOTAL	52		477		271	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	30	100.0%	273	100.0%	192	100.0%
Men who have Sex with Men (MSM)	20	66.7%	143	52.4%	152	79.2%
Injection Drug Users (IDU)	***	***	46	16.8%	13	6.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	17	6.2%	7	3.6%
Heterosexual Exposure (HET)	7	23.3%	67	24.5%	19	9.9%
Other Exposures	0	0.0%	0	0.0%	1	0.5%
No Reported Exposure	3		31		19	
TOTAL	33		304		211	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	17	100.0%	147	100.0%	53	100
Injection Drug Users (IDU)	***	***	20	13.6%	19	35.8%
Heterosexual Exposure (HET)	***	***	127	86.4%	34	64.2%
Other Exposures	0	0.0%	0	0.0%	0	0.0%
No Reported Exposure*	2		26		7	
TOTAL	19		173		60	

* Includes 1 Hispanic case and 11 non-Hispanic black cases with Presumed Female Heterosexual exposure

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	772	563	72.9%	563	10.8%	13.7%	17.6%	57.9%
Men who have Sex with Men (MSM)	343	244	71.1%	554	13.1%	11.9%	16.4%	58.6%
Injection Drug Users (IDU)	112	80	71.4%	593	5.0%	15.0%	18.8%	61.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	33	22	66.7%	378	9.1%	36.4%	18.2%	36.4%
Heterosexual Exposure (HET)	283	216	76.3%	571	10.6%	13.0%	18.1%	58.3%
Other Exposures	1	1	100.0%	484	0.0%	0.0%	100.0%	0.0%
No Reported Exposure*	90	62	68.9%	501	12.9%	21.0%	16.1%	50.0%
TOTAL	862	625	72.5%	558	11.0%	14.4%	17.4%	57.1%

* Includes 12 cases with Presumed Female Heterosexual exposure

Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	772	562	72.8%	82.7%	14,150
Men who have Sex with Men (MSM)	343	253	73.8%	84.2%	11,346
Injection Drug Users (IDU)	112	78	69.6%	80.8%	11,274
Men who have Sex with Men and Inject Drugs (MSM/IDU)	33	23	69.7%	91.3%	19,957
Heterosexual Exposure (HET)	283	207	73.1%	80.7%	16,875
Other Exposures	1	1	100.0%	100.0%	--
No Reported Exposure*	90	63	70.0%	84.1%	6,790
TOTAL	862	625	72.5%	82.9%	13,803

* Includes 12 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

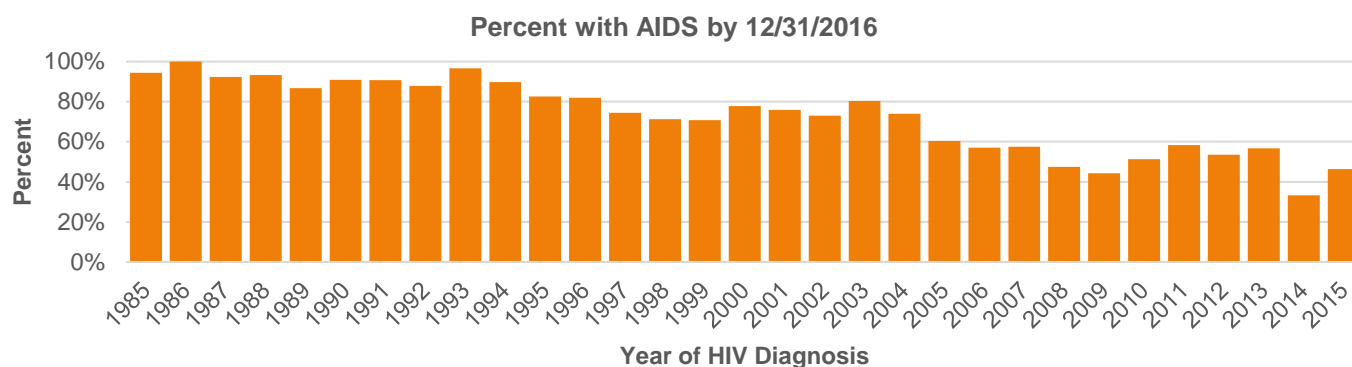
Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017

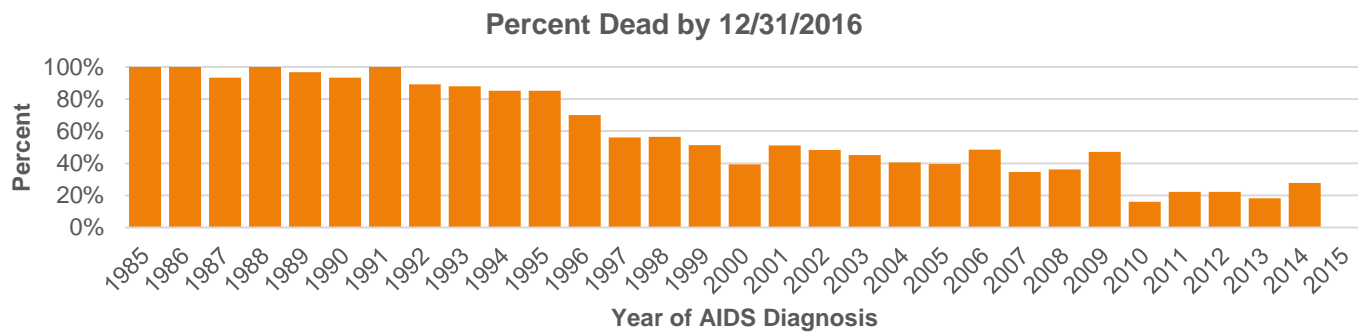
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	8	8	100.0%	0.9	87.5%	87.5%	87.5%	100.0%
1985	18	17	94.4%	4.2	55.6%	55.6%	61.1%	83.3%
1986	20	20	100.0%	3.0	55.0%	60.0%	75.0%	95.0%
1987	39	36	92.3%	5.0	35.9%	35.9%	56.4%	76.9%
1988	45	42	93.3%	3.7	48.9%	53.3%	73.3%	82.2%
1989	75	65	86.7%	4.0	40.0%	44.0%	57.3%	81.3%
1990	55	50	90.9%	3.7	38.2%	41.8%	60.0%	83.6%
1991	75	68	90.7%	3.0	45.3%	49.3%	66.7%	86.7%
1992	66	58	87.9%	3.6	40.9%	47.0%	65.2%	80.3%
1993	61	59	96.7%	2.4	54.1%	67.2%	85.2%	91.8%
1994	78	70	89.7%	2.1	62.8%	67.9%	75.6%	83.3%
1995	69	57	82.6%	2.1	52.2%	56.5%	71.0%	81.2%
1996	50	41	82.0%	3.3	44.0%	48.0%	58.0%	76.0%
1997	55	41	74.5%	1.4	56.4%	58.2%	67.3%	72.7%
1998	66	47	71.2%	3.6	40.9%	43.9%	50.0%	59.1%
1999	58	41	70.7%	2.0	55.2%	56.9%	58.6%	65.5%
2000	36	28	77.8%	2.1	50.0%	50.0%	66.7%	72.2%
2001	58	44	75.9%	1.2	58.6%	62.1%	67.2%	75.9%
2002	37	27	73.0%	1.7	51.4%	56.8%	64.9%	67.6%
2003	46	37	80.4%	1.7	60.9%	63.0%	69.6%	78.3%
2004	46	34	73.9%	2.2	50.0%	50.0%	58.7%	71.7%
2005	48	29	60.4%	0.9	52.1%	52.1%	56.3%	60.4%
2006	49	28	57.1%	1.2	46.9%	46.9%	53.1%	57.1%
2007	40	23	57.5%	1.1	47.5%	47.5%	55.0%	--
2008	40	19	47.5%	1.6	32.5%	35.0%	40.0%	--
2009	43	19	44.2%	0.9	39.5%	39.5%	39.5%	--
2010	39	20	51.3%	1.6	35.9%	38.5%	41.0%	--
2011	48	28	58.3%	0.4	52.1%	54.2%	58.3%	--
2012	28	15	53.6%	0.7	46.4%	46.4%	--	--
2013	30	17	56.7%	0.3	53.3%	53.3%	--	--
2014	33	11	33.3%	0.2	30.3%	33.3%	--	--
2015	41	19	46.3%	0.2	46.3%	--	--	--
TOTAL	1,500	1,118	74.5%	2.4	48.1%	51.1%	60.7%	70.5%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



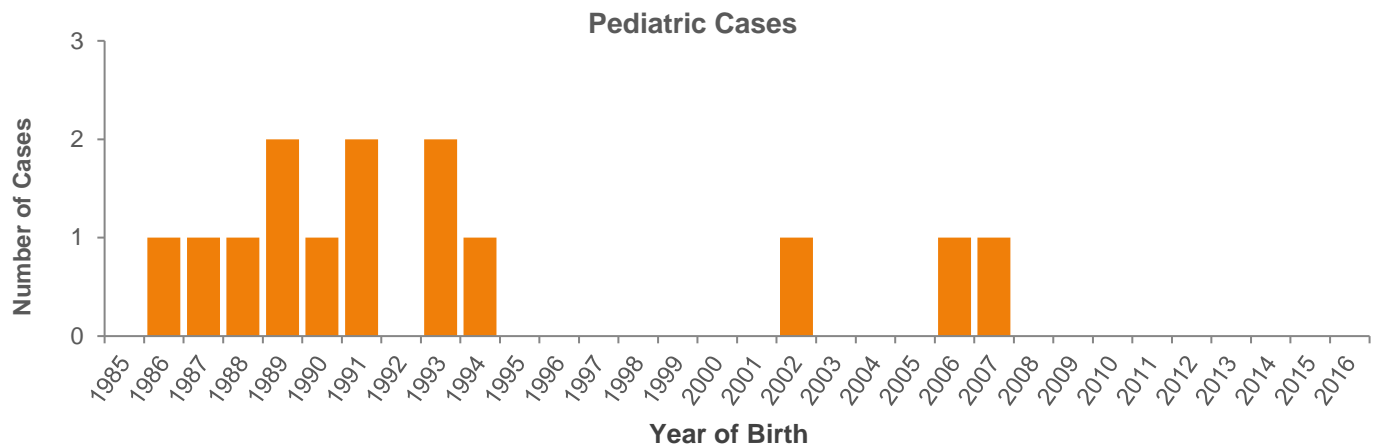
YEAR OF AIDS DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	7	7	100.0%	0.4	14.3%	0.0%	0.0%	0.0%
1985	10	10	100.0%	0.5	30.0%	0.0%	0.0%	0.0%
1986	9	9	100.0%	0.8	33.3%	22.2%	0.0%	0.0%
1987	15	14	93.3%	2.5	60.0%	40.0%	13.3%	13.3%
1988	21	21	100.0%	1.8	61.9%	28.6%	9.5%	0.0%
1989	31	30	96.8%	2.4	58.1%	45.2%	16.1%	6.5%
1990	30	28	93.3%	2.6	76.7%	50.0%	23.3%	6.7%
1991	38	38	100.0%	2.5	73.7%	42.1%	15.8%	2.6%
1992	37	33	89.2%	2.4	62.2%	40.5%	18.9%	16.2%
1993	58	51	87.9%	2.8	77.6%	53.4%	27.6%	15.5%
1994	81	69	85.2%	4.4	75.3%	63.0%	39.5%	25.9%
1995	61	52	85.2%	4.8	72.1%	62.3%	47.5%	26.2%
1996	40	28	70.0%	4.5	80.0%	75.0%	55.0%	37.5%
1997	57	32	56.1%	6.3	87.7%	80.7%	70.2%	56.1%
1998	46	26	56.5%	4.6	84.8%	80.4%	63.0%	50.0%
1999	43	22	51.2%	5.5	95.3%	88.4%	72.1%	55.8%
2000	33	13	39.4%	4.8	84.8%	78.8%	72.7%	69.7%
2001	51	26	51.0%	4.8	80.4%	78.4%	68.6%	60.8%
2002	29	14	48.3%	5.1	82.8%	79.3%	69.0%	65.5%
2003	42	19	45.2%	2.8	78.6%	71.4%	66.7%	54.8%
2004	32	13	40.6%	3.3	87.5%	78.1%	71.9%	62.5%
2005	38	15	39.5%	2.6	81.6%	81.6%	71.1%	60.5%
2006	33	16	48.5%	2.9	75.8%	72.7%	63.6%	51.5%
2007	26	9	34.6%	3.0	88.5%	88.5%	73.1%	--
2008	36	13	36.1%	2.7	83.3%	80.6%	72.2%	--
2009	17	8	47.1%	1.1	64.7%	58.8%	58.8%	--
2010	31	5	16.1%	2.1	93.5%	90.3%	87.1%	--
2011	36	8	22.2%	2.6	91.7%	91.7%	77.8%	--
2012	27	6	22.2%	0.8	85.2%	81.5%	--	--
2013	22	4	18.2%	0.3	81.8%	81.8%	--	--
2014	18	5	27.8%	0.1	72.2%	72.2%	--	--
2015*	26	0	0.0%	--	100.0%	--	--	--
TOTAL	1,081	644	59.6%	3.5	78.5%	69.0%	54.9%	45.3%

*2015 AIDS deaths are preliminary.

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES			PEDIATRIC TOTAL LIVING HIV CASES	
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	6	0	0	0	--
1985	0	1	1	0	1
1986	1	1	0	0	2
1987	1	0	0	0	2
1988	1	1	0	0	3
1989	2	0	0	1	2
1990	1	1	0	0	3
1991	2	5	1	0	8
1992	0	3	2	1	10
1993	2	1	1	0	11
1994	1	1	2	0	12
1995	0	0	0	2	10
1996	0	1	1	1	9
1997	0	1	0	0	10
1998	0	0	0	0	10
1999	0	0	0	0	10
2000	0	0	0	0	10
2001	0	0	1	0	10
2002	1	0	1	0	10
2003	0	0	0	0	10
2004	0	1	0	0	11
2005	0	0	0	0	11
2006	1	0	0	1	10
2007	1	1	0	0	11
2008	0	0	1	0	11
2009	0	1	0	0	12
2010	0	1	0	0	13
2011	0	0	0	0	13
2012	0	0	0	0	13
2013	0	0	0	0	13
2014	0	0	0	0	13
2015	0	0	0	0	13
2016	0	0	0	0	14
TOTAL	20	20	11	6	--

Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Caroline	1	7.1%
Cecil	3	21.4%
Dorchester	4	28.6%
Kent	1	7.1%
Queen Anne's	0	0.0%
Somerset	1	7.1%
Talbot	2	14.3%
Wicomico	1	7.1%
Worcester	1	7.1%
TOTAL	14	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	6	42.9%
Female	8	57.1%
TOTAL	14	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	1	7.1%
Non-Hispanic	13	92.9%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	6	42.9%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	6	42.9%
Multiracial/Other	1	7.1%
TOTAL	14	100.0%

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for 7/1/2016.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 test result performed in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.